





# SUPEROPTIMIZATION OF WEBASSEMBLY BYTECODE

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**Javier Cabrera-Arteaga**, Shrinish Donde, Jian Gu, Orestis Floros, Lucas Satabin, Benoit Baudry, Martin Monperrus

*Conference Companion of the 4th International Conference on Art, Science, and Engineering of Programming (Programming 2021), MoreVMs*

<https://doi.org/10.1145/3397537.3397567>



# CROW: CODE DIVERSIFICATION FOR WEBASSEMBLY

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**Javier Cabrera-Arteaga**, Orestis Floros, Oscar Vera-Pérez, Benoit Baudry,  
Martin Monperrus

*Network and Distributed System Security Symposium (NDSS 2021), MADWeb*

<https://doi.org/10.14722/madweb.2021.23004>



# MULTI-VARIANT EXECUTION AT THE EDGE

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**Javier Cabrera-Arteaga**, Pierre Laperdrix, Martin Monperrus, Benoit Baudry  
*Conference on Computer and Communications Security (CCS 2022), Moving  
Target Defense (MTD)*

<https://dl.acm.org/doi/abs/10.1145/3560828.3564007>





# WEBASSEMBLY      DIVERSIFICATION FOR MALWARE EVASION

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**Javier Cabrera-Arteaga**, Tim Toady, Martin Monperrus, Benoit Baudry  
*Computers & Security, Volume 131, 2023*

<https://www.sciencedirect.com/science/article/pii/S0167404823002067>



WASM-MUTATE: FAST AND  
EFFECTIVE BINARY  
DIVERSIFICATION FOR  
WEBASSEMBLY

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**Javier Cabrera-Arteaga**, Nick Fitzgerald, Martin Monperrus, Benoit Baudry  
*Under revision*



# SCALABLE COMPARISON OF JAVASCRIPT V8 BYTECODE TRACES

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**Javier Cabrera-Arteaga**, Martin Monperrus, Benoit Baudry  
*11th ACM SIGPLAN International Workshop on Virtual Machines and  
Intermediate Languages (SPLASH 2019)*

<https://doi.org/10.1145/3358504.3361228>